

**API-S-50 (1/2" SLOT) • ONE WAY DISCHARGE**

|            |                    |       |           |            |            |            |            |            |            |            |             |             |
|------------|--------------------|-------|-----------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| 24" Length | 1 SLOT<br>5" Inlet | CFM   | 23        | 25         | 27         | 29         | 32         | 36         | 41         | 45         | 50          | 54          |
|            |                    | Pt    | 0.03      | 0.03       | 0.04       | 0.05       | 0.05       | 0.07       | 0.09       | 0.11       | 0.13        | 0.15        |
|            |                    | NC    | <20       | <20        | <20        | <20        | 20         | 24         | 27         | 30         | 32          | 34          |
|            |                    | Throw | 2   2   5 | 2   3   5  | 2   3   6  | 2   3   6  | 2   3   7  | 2   4   7  | 3   4   8  | 3   5   9  | 3   5   9   | 4   6   10  |
| 24" Length | 2 SLOT<br>6" Inlet | CFM   | 40        | 44         | 48         | 52         | 56         | 64         | 72         | 80         | 88          | 96          |
|            |                    | Pt    | 0.03      | 0.04       | 0.05       | 0.06       | 0.07       | 0.09       | 0.11       | 0.13       | 0.16        | 0.19        |
|            |                    | NC    | <20       | <20        | <20        | 20         | 22         | 26         | 29         | 31         | 34          | 36          |
|            |                    | Throw | 2   3   6 | 2   3   7  | 2   4   7  | 3   4   8  | 3   4   9  | 3   5   10 | 4   6   11 | 4   6   12 | 5   7   13  | 5   7   13  |
| 48" Length | 1 SLOT<br>6" Inlet | CFM   | 45        | 50         | 54         | 59         | 63         | 72         | 81         | 90         | 99          | 108         |
|            |                    | Pt    | 0.03      | 0.03       | 0.04       | 0.05       | 0.05       | 0.07       | 0.09       | 0.11       | 0.13        | 0.15        |
|            |                    | NC    | <20       | <20        | <20        | 21         | 23         | 27         | 30         | 33         | 35          | 37          |
|            |                    | Throw | 2   3   7 | 2   4   7  | 3   4   8  | 3   4   9  | 3   5   9  | 4   5   11 | 4   6   12 | 4   7   13 | 5   7   13  | 5   8   14  |
| 48" Length | 2 SLOT<br>8" Inlet | CFM   | 80        | 88         | 96         | 104        | 112        | 128        | 144        | 160        | 176         | 192         |
|            |                    | Pt    | 0.03      | 0.04       | 0.05       | 0.06       | 0.07       | 0.09       | 0.11       | 0.13       | 0.16        | 0.19        |
|            |                    | NC    | <20       | <20        | 21         | 23         | 25         | 29         | 32         | 34         | 37          | 39          |
|            |                    | Throw | 3   4   9 | 3   5   10 | 4   5   11 | 4   6   11 | 4   6   12 | 5   7   14 | 5   8   16 | 6   9   17 | 6   10   18 | 7   11   19 |

**API-S-75 (3/4" SLOT) • ONE WAY DISCHARGE**

|            |                     |       |            |            |            |            |            |             |             |             |             |              |
|------------|---------------------|-------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|
| 24" Length | 1 SLOT<br>6" Inlet  | CFM   | 33         | 40         | 47         | 53         | 60         | 67          | 73          | 80          | 87          | 93           |
|            |                     | Pt    | 0.04       | 0.05       | 0.07       | 0.09       | 0.11       | 0.14        | 0.17        | 0.20        | 0.24        | 0.28         |
|            |                     | NC    | <20        | <20        | <20        | 22         | 25         | 28          | 30          | 32          | 35          | 36           |
|            |                     | Throw | 2   3   6  | 2   3   7  | 3   4   8  | 3   5   9  | 3   5   10 | 4   6   11  | 4   6   11  | 5   7   12  | 5   7   13  | 5   8   13   |
| 24" Length | 2 SLOT<br>8" Inlet  | CFM   | 60         | 70         | 80         | 90         | 110        | 120         | 130         | 140         | 150         | 170          |
|            |                     | Pt    | 0.04       | 0.06       | 0.08       | 0.10       | 0.14       | 0.17        | 0.20        | 0.23        | 0.27        | 0.34         |
|            |                     | NC    | <20        | <20        | <20        | 23         | 28         | 30          | 32          | 34          | 36          | 39           |
|            |                     | Throw | 3   4   8  | 3   4   9  | 3   5   10 | 4   6   12 | 5   7   14 | 5   8   15  | 6   8   15  | 6   9   16  | 6   10   16 | 7   11   18  |
| 48" Length | 1 SLOT<br>8" Inlet  | CFM   | 70         | 80         | 90         | 110        | 120        | 130         | 150         | 160         | 170         | 190          |
|            |                     | Pt    | 0.04       | 0.05       | 0.06       | 0.10       | 0.11       | 0.13        | 0.18        | 0.20        | 0.23        | 0.29         |
|            |                     | NC    | <20        | <20        | 21         | 26         | 28         | 30          | 34          | 35          | 37          | 40           |
|            |                     | Throw | 3   4   8  | 3   5   10 | 4   5   11 | 4   7   13 | 5   7   14 | 5   8   15  | 6   9   16  | 6   10   17 | 7   10   18 | 8   11   19  |
| 48" Length | 2 SLOT<br>10" Inlet | CFM   | 120        | 140        | 170        | 190        | 210        | 240         | 260         | 280         | 310         | 330          |
|            |                     | Pt    | 0.04       | 0.06       | 0.09       | 0.11       | 0.13       | 0.17        | 0.20        | 0.23        | 0.28        | 0.32         |
|            |                     | NC    | <20        | <20        | 24         | 27         | 30         | 33          | 35          | 37          | 40          | 41           |
|            |                     | Throw | 4   5   11 | 4   6   13 | 5   8   15 | 6   9   17 | 6   9   19 | 7   11   21 | 8   12   22 | 8   13   22 | 9   14   24 | 10   15   24 |

**API-S-10 (1" SLOT) • ONE WAY DISCHARGE**

|            |                     |       |            |            |             |             |             |             |              |              |              |              |
|------------|---------------------|-------|------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 24" Length | 1 SLOT<br>6" Inlet  | CFM   | 50         | 57         | 63          | 69          | 76          | 82          | 88           | 95           | 101          | 107          |
|            |                     | Pt    | 0.04       | 0.06       | 0.07        | 0.08        | 0.10        | 0.12        | 0.13         | 0.15         | 0.17         | 0.20         |
|            |                     | NC    | <20        | 22         | 24          | 27          | 29          | 31          | 33           | 35           | 36           | 38           |
|            |                     | Throw | 3   4   9  | 3   5   10 | 4   6   11  | 4   6   11  | 4   7   12  | 5   7   12  | 5   8   13   | 6   8   13   | 6   9   13   | 6   9   14   |
| 24" Length | 2 SLOT<br>8" Inlet  | CFM   | 90         | 100        | 110         | 120         | 130         | 150         | 160          | 170          | 180          | 190          |
|            |                     | Pt    | 0.05       | 0.06       | 0.08        | 0.09        | 0.11        | 0.14        | 0.16         | 0.18         | 0.21         | 0.23         |
|            |                     | NC    | 21         | 23         | 26          | 28          | 30          | 34          | 35           | 37           | 39           | 40           |
|            |                     | Throw | 4   6   12 | 4   7   13 | 5   7   14  | 5   8   15  | 6   9   15  | 7   10   16 | 7   11   17  | 7   11   18  | 8   12   18  | 8   12   19  |
| 48" Length | 1 SLOT<br>10" Inlet | CFM   | 100        | 110        | 130         | 140         | 150         | 160         | 180          | 190          | 200          | 210          |
|            |                     | Pt    | 0.04       | 0.05       | 0.07        | 0.08        | 0.10        | 0.11        | 0.14         | 0.16         | 0.17         | 0.19         |
|            |                     | NC    | 21         | 24         | 28          | 30          | 32          | 33          | 37           | 38           | 39           | 41           |
|            |                     | Throw | 4   6   12 | 5   7   14 | 5   8   15  | 6   9   16  | 6   9   16  | 7   10   17 | 7   11   18  | 8   12   19  | 8   12   19  | 9   13   19  |
| 48" Length | 2 SLOT<br>12" Inlet | CFM   | 180        | 200        | 220         | 250         | 270         | 290         | 310          | 340          | 360          | 380          |
|            |                     | Pt    | 0.05       | 0.06       | 0.08        | 0.10        | 0.12        | 0.13        | 0.15         | 0.18         | 0.21         | 0.23         |
|            |                     | NC    | 24         | 26         | 29          | 32          | 34          | 36          | 38           | 40           | 42           | 43           |
|            |                     | Throw | 6   8   17 | 6   9   19 | 7   10   20 | 8   12   21 | 8   13   22 | 9   13   23 | 10   14   24 | 11   16   25 | 11   17   25 | 12   18   26 |

**Test Standard**

- ANSI / ASHRAE standard 70
- Isothermal air used during testing.

**Throw**

- The numbers shown are throw distances, in feet, measured from the diffuser relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to the ceiling surface.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- Throws shown are for 1-way discharge pattern. For 2 way, proportion air quantity based on number of slots in each direction and refer to the throw data applicable to each individual direction.

**Sound Levels**

- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.

**Pressure**

- PS represents static pressure, inches of water